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ABSTRACT

The medical graduates from the Western Interstate Commission for Higher Education (WICHE) Student Exchange Programs (SEP) are studied in their relation to the medical manpower of the sending states. Participating schools were: University of California (Los Angeles, Irvine, and San Francisco branches); Loma Linda University; Stanford University; University of Southern California; University of Colorado Medical Center; University of Oregon Health Sciences Center; University of Utah; and University of Washington. "Sending" states in medicine during the period covered by this report were: Alaska; Arizona; Hawaii; Idaho; Montana; Nevada; New Mexico; and Wyoming. Highlighted findings are that: 33 percent of SEP graduates through 1970 were located in 1976 in the home state that had sent them as exchange students; the total number of physicians graduated with the M.D. during the SEP-era located in the sending state exceeds the number of SEP graduates sent by that state in each of the sending states; of the total SEP-era graduates from all schools located in the sending states, the SEP graduates represent 5 percent; graduates of the WICHE schools constitute 16 percent of all SEP-era graduates located in the eight states combined; out of a total of 29,948 SEP-era graduates located in the WICHE region, 383, or 1.3 percent are SEP graduates; and 91 SEP graduates were located in the United States outside the WICHE region, but 2,969 SEP-era graduates of institutions outside the region were located in the eight sending states. (LC)

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A STUDY OF MEDICAL GRADUATES OF THE WICHE STUDENT EXCHANGE PROGRAMS SHOWING THE RELATION OF THAT GROUP TO THE MEDICAL MANPOWER OF THE SENDING STATES

HE 011 866

STUDENT EXCHANGE PROGRAMS
WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION

SCHOOLS PARTICIPATING IN THE STUDENT EXCHANGE PROGRAM IN MEDICINE
(Those whose graduates are reflected in the data of this report)

CALIFORNIA - Public

University of California, Irvine, College of Medicine
(Successor to California College of Medicine which was successor to College of Osteopathic Physicians and Surgeons)

University of California, Los Angeles, School of Medicine*

University of California, San Francisco, School of Medicine

- Private

Loma Linda University, School of Medicine

Stanford University, Stanford Medical School

University of Southern California, School of Medicine

COLORADO

University of Colorado Medical Center, School of Medicine

OREGON

University of Oregon Health Sciences Center, School of Medicine

UTAH

University of Utah, College of Medicine*

WASHINGTON

University of Washington, School of Medicine*

"SENDING" STATES IN MEDICINE DURING PERIOD COVERED BY THIS STUDY

ALASKA	MONTANA
ARIZONA	NEVADA
HAWAII	NEW MEXICO
IDAHO	WYOMING

*These schools had their first M.D. graduates as follows: UCLA--1955; University of Utah--1945; University of Washington--1950; University of California, Irvine, together with its predecessors, produced a steady flow of graduates throughout the period covered by this study, as did each of the remaining schools listed.

A STUDY OF MEDICAL GRADUATES OF THE WICHE STUDENT EXCHANGE PROGRAMS SHOWING THE RELATION OF THAT GROUP TO THE MEDICAL MANPOWER OF THE SENDING STATES

Student Exchange Programs

WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION

P. O. Drawer P Boulder, Colorado 80302

An Equal Opportunity Employer

January 1978

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SOURCES

The names of the 556 SEP graduates in medicine up through 1970, along with the school and year of graduation with the M.D. degree, were obtained from the records of the Student Exchange Programs. The 1970 cutoff was chosen because most of the graduates of that year could be expected to have completed graduate training and military service and be located in regular practice in 1976, whereas such could not be expected of graduates of 1971 and later. Also, 1970 saw the graduation of the last class of Arizona exchange students who entered medical training before the establishment of the Arizona medical school. The comparable class from New Mexico had graduated in 1967, and Hawaii and Nevada continued to have SEP graduates beyond 1970.

The 1976 location of SEP graduates was determined primarily from state rosters of licensed doctors. In some cases the location is based on the location at the end of 1973 shown in American Medical Directory, 26th Edition 1973 published by the American Medical Association and confirmed whenever possible from non-resident listings in state rosters and from telephone book listings. When an individual's status and location were not reasonably certain from these sources, that case was classified in the "deceased or unknown" category.

Data on the numbers of M.D.'s located in each state by date and school of the M.D. degree were taken from Medical School Alumni published by the American Medical Association in 1975. These data are based on the location as of the end of 1973. The period 1955-1969 is used as the SEP era for this study, and the period 1930-1954 is used as the period during which the bulk of the remaining M.D.'s in active practice in 1973 had received the M.D. degree. It happens that the totals for these two periods are nearly equal, which facilitates some comparisons.

To the extent that individuals who received the M.D. during 1955-1969 were still engaged in graduate training in 1973, they will be concentrated in states with medical schools, including the four "sending" states in this study with recently established medical schools. This factor probably skews the data to some extent.

HIGHLIGHTS

* Thirty-three percent of SEP graduates through 1970 were located in 1976 in the home state which had "sent" them as exchange students. For individual states this percentage varied from 11 to 42. (See Table 3.)

* Compared to the number of SEP graduates sent by the state, the number of SEP graduates sent by all states who were located in the given state represents a ratio which varies among the individual states from .21 to .57. For the eight sending states combined the ratio is .41. (See Table 3.)

* One hundred eighty-nine SEP graduates were located in the five states having "receiving" medical schools. But in 1973 there were 505 non-SEP graduates of those receiving schools, who had received the M.D. during the SEP era 1955-1969, located in the eight sending states. In each of the individual sending states, except Wyoming, the number of non-SEP graduates of the receiving schools located in the state exceeded by a large margin the number of SEP graduates sent by that state and now located in the receiving states. (See Table 6 series.)

* The total number of medical doctors graduated with the M.D. during the SEP era located in the sending state exceeds the number of SEP graduates sent by that state in each of the sending states. The ratio varies from 2.7 in Wyoming to 29.0 in Hawaii. For the eight sending states combined, the ratio is 8.9. (See Table 3.)

* Of the total SEP era graduates from all schools located in the sending states, the SEP graduates represent 5%. This varies among the individual sending states from 1% to 11%. SEP graduates represent 2.3% of the total graduates 1930-1969 located in the sending states and this varies from 0.7% to 4.9%. (See Table 3.)

- Graduates of the WICHE schools constitute 16% of all the SEP era graduates located in the eight sending states combined. For individual receiving states this figure varies from 12% to 31%. The percentages are slightly lower when the entire 1930-1969 period is included.

  The comparable figure for the five receiving states combined is 30% and this varies in individual receiving states from 23% to 46%. These percentages are slightly higher, in most cases, when the entire 1930-1969 period is included. (See Table 3.)

- Ninety-one SEP graduates were located in the United States outside the WICHE region, but 2,969 SEP era graduates of institutions outside the region were located in the eight sending states. (See Table 6.)

- Out of a total of 29,948 SEP era graduates located in the WICHE region, 383, or 1.3%, are SEP graduates. (See Table 8.)

- There is a group of 31 medical schools located outside the WICHE region whose graduates constitute about half of all M.D.'s located in the eight sending states and about 40% of all M.D.'s located in the five receiving states. The largest contributors are schools located in the midwest. (See Table 4 and Appendix Table 1.)

- Graduates of the WICHE medical schools constitute 7% of all M.D.'s in the United States, both for the group receiving M.D.'s during 1955-1969 and those receiving the M.D. during 1930-1954. (See Table 4.) When graduates of foreign schools are excluded, the WICHE schools have graduated 8% of all 1930-1954 graduates of U.S. and Canadian schools and 9% of 1955-1969 graduates of those schools. In contrast, the WICHE states have, located within the region, 22% of the 1930-1954 graduates and 24% of the 1955-1969 graduates.

- Whereas the WICHE schools have graduated 28% of the SEP era graduates located within the region (Table 3), the WICHE schools enrolled 1,491, or 73%, of the 2,033 students from the region who were enrolled in the entering classes of U.S. medical schools, on the average, in the 1973 and 1975 entering classes. (See Table 5.)

- The number of WICHE states students enrolled in the entering classes of U.S. medical schools represents 5.37 per 100,000 population, compared to a national average of 6.62. The only WICHE states which exceed the national average are those with small populations and their own medical schools. (See Table 5.)

- Data for individual states will be found in Table 6 series, Table 7 series, and Appendix Table I, as well as in Tables 1-5.

1976 LOCATION OF WICHE SEP GRADUATES IN MEDICINE
(SEP GRADUATES THROUGH 1970)

There were 556 SEP graduates in medicine up through 1970, and information was obtained, as to their location in 1976, on 536 of them. Of the 536, there were 61 whose 1976 status and location were judged to be temporary, leaving 475 as the basic group to be analyzed in this study.

Table 1, facing, shows the distribution by 1976 location of the SEP graduates from each of the eight sending states. Thus, for Idaho, there are a total of 83 SEP graduates of whom one is classified as deceased or unknown and 20 are classified as having only temporary status in 1976, leaving 62. Of the 62, seven were located outside the WICHE region or in military service leaving 55 within the region. Twenty-four are located in Idaho, nine in Oregon, and so forth.

Table 1 also shows the number of SEP graduates located in each of the thirteen WICHE states, according to the home state which "sent" them as exchange students. For Idaho, in addition to the 24 who were "sent" by that state, there are two located in Idaho who were "sent" by New Mexico, etc., for a total of 30 SEP graduates located in Idaho.

Three hundred eighty-three of the 475, or 81%, were located within the WICHE region.

Table 1

1976 LOCATION OF WICHE SEP GRADUATES IN MEDICINE

(Graduates through 1970)

Sending States	AK	AZ	CA	CO	HI	ID	MT	NV	NM	OR	UT	WA	WY	Total in WICHE States	Out of Region & Military	Total Permanent Address	Temporary Address	Deceased or Unknown	Total SEP Grads
Alaska	2		3			1				3		4		13	6	19	1	1	21
Arizona		70	33	10	7	1	1	1	3	6	5	2	1	135	30	165	4	3	172
Hawaii			5	1	6		1	1		2		2		18	3	21	7	1	29
Idaho		1	6	2		28	3			9	6	6		55	7	62	20	1	83
Montana		1	1	4		1	9	1		6	2	10		35	8	43	9	3	55
Nevada			4				1	4		1				10	4	14	6		20
New Mexico	2	5	19	14		2		1	25		1		1	70	21	91	6	3	100
Wyoming		3	11	8		1			3	1	2	2	16	47	13	60	8	3	71
Total Located in Each State	4	80	82	39	8	30	15	8	31	28	16	24	18	383	92	475	61	20	556

NUMBER OF MEDICAL DOCTORS LOCATED IN WICHE STATES IN 1973

Table 2 shows, for each state, the number of medical doctors located in that state in 1973 who received the M.D. degree up through 1969. Separate counts are shown for those receiving the M.D. prior to 1930, during the period 1930-1954, and during the period 1955-1969. The 1955-1969 period is used as the SEP era for this study.

Further subclassifications of the 1930-1954 and 1955-1969 figures are shown in Table 6 series, Table 7 series, and Appendix Table 1.

Table 2

NUMBER OF MEDICAL DOCTORS LOCATED IN THE WICHE STATES IN 1973*

		Number of M.D.'s Located in the State Who Received the M.D. Degree in Each Time Period**			
	Years When State Had SEP Graduates	Prior to 1930	1930-1954	1955-1969	Total 1930-1969
ALASKA	1959-Present	5	98	250	348
ARIZONA	1956-Present	336	1431	1568	2999
CALIFORNIA***	Receiving State	2884	19427	18467	37894
COLORADO	Receiving State	239	1664	2252	3916
HAWAII	1964-1974	67	609	608	1217
IDAHO	1962-Present	40	411	343	754
MONTANA	1957-Present	43	421	345	766
NEVADA	1962-Present	31	329	314	643
NEW MEXICO	1954-1968	78	620	651	1271
OREGON	Receiving State	212	1539	1613	3152
UTAH	Receiving State	91	685	778	1463
WASHINGTON	Receiving State	275	2582	2598	5180
WYOMING	1954-Present	24	203	161	364
TOTAL		4325	30019	29948	59967

*Data from Medical School Alumni published by the American Medical Association in 1975 and based on the AMA's Physician Masterfile as of December 31, 1973.

**Those receiving the M.D. after 1969 are not shown. With few exceptions, these were still in post-graduate training or in military service in 1973.

***The source data show 2,299 M.D.'s located in California who received the M.D. from the University of California, Irvine in the period 1960-64. This figure includes M.D.'s conferred upon earlier graduates of the College of Osteopathic Physicians and Surgeons. This total is distributed on an estimation basis as follows: prior to 1930--150; 1930-1954--1,485; 1955-1969--664.

SELECTED ANALYTICAL RATIOS ON SEP GRADUATES AND MEDICAL MANPOWER IN WICHE STATES

In Table 3, the first section of four columns shows ratios between four increasingly inclusive counts of M.D.'s located in each state who received the M.D. degree during the SEP era, 1955-1969, and the number of SEP graduates sent by that state. Thus, for the state of Wyoming, the following information is shown:

Column 1 Of the SEP graduates "sent" by Wyoming, .27 are located in Wyoming.

Column 2 The number of SEP graduates, regardless of state of origin, located in Wyoming represents .30 of the number of SEP graduates sent by Wyoming

Column 3 When non-SEP graduates of the WICHE medical schools located in Wyoming are included, the number of graduates from the WICHE region located in Wyoming represents .63 of the number of SEP graduates sent by Wyoming.

Column 4 The total number of SEP era graduates from all schools located in Wyoming represents 2.7 of the number of SEP graduates sent by Wyoming.

The second and third sections of Table 3, respectively, show ratios of pertinent counts for each state to the total SEP era graduates located in that state and to the total graduates of 1930-1969 located in that state.

Table 3

SELECTED ANALYTICAL RATIOS ON SEP GRADUATES AND MEDICAL MANPOWER IN WICHE STATES

	Graduated 1955-1969							Graduated 1930-1969		
	This State's SEP Grads Located Here	All States' SEP Grads Located Here	Total Grads of WICHE Med Schools Located Here	Total Grads of All Med Schools Located Here	This State's SEP Grads Located Here	All States' SEP Grads Located Here	Total Grads of WICHE Med Schools Located Here	This State's SEP Grads Located Here	All States' SEP Grads Located Here	All Grads of WICHE Med Schools Located Here
	Total SEP Grads Sent by this State*				Total Grads of All Med Schools Located Here			Total M.D.'s Graduated 1930-1969 Located Here		
ALASKA	.11	.21	3.21	13.2	.01	.02	.24	.006	.011	.22
ARIZONA	.42	.48	1.19	9.5	.04	.05	.13	.023	.027	.11
HAWAII	.29	.38	3.43	29.0	.01	.01	.12	.005	.007	.12
IDAHO	.39	.48	1.74	5.5	.07	.09	.31	.032	.040	.28
MONTANA	.21	.35	1.35	8.0	.03	.04	.17	.012	.020	.13
NEVADA	.29	.57	5.07	22.4	.01	.03	.23	.006	.012	.20
NEW MEXICO	.27	.34	1.03	7.2	.04	.05	.14	.020	.024	.12
WYOMING	.27	.30	.63	2.7	.10	.11	.24	.044	.049	.18
Eight Sending States Combined	.33	.41	1.47	8.9	.04	.05	.16	.019	.023	.14
CALIFORNIA	--	--	--	--	--	.004	.29	--	.002	.31
COLORADO	--	--	--	--	--	.017	.23	--	.010	.27
OREGON	--	--	--	--	--	.017	.39	--	.009	.42
UTAH	--	--	--	--	--	.021	.46	--	.011	.40
WASHINGTON	--	--	--	--	--	.009	.32	--	.005	.28
Five Receiving States Combined	--	--	--	--	--	.007	.30	--	.004	.31
Thirteen WICHE States Combined	--	.81	--	--	--	.013	.28	--	.006	.29

*Based on number located, excluding those who are deceased or unknown or have temporary addresses

PERCENTAGE DISTRIBUTION OF M.D.'s LOCATED IN WICHE STATES BY INSTITUTION GRANTING M.D. DEGREE

Table 4 shows the percentage distribution of M.D.'s located in each WICHE state according to the institution granting the M.D. degree, for two groups: those receiving the M.D. during 1930-1954 and those receiving the degree during 1955-1969. Comparable figures are shown for the United States as a whole.

The thirty-one non-WICHE schools reflected in column three are those listed individually in Appendix Table 1.

Table 4

MEDICAL DOCTORS LOCATED IN WICHE STATES IN 1973 WHO HAD RECEIVED M.D. DURING 1930-1969
PERCENTAGE DISTRIBUTION BY SCHOOL OF M.D. AND PERIOD WHEN DEGREE WAS RECEIVED

	Percentage Distribution by School Where M.D. Degree Received						
	WICHE SEP	WICHE Schools Non-SEP	31 Non-WICHE Schools	Other U.S. Schools	Canadian Schools	Foreign Schools	Total
ALASKA							
1930-1954	--	17%	47%	31%	0%	5%	100%
1955-1969	2%	23%	42%	27%	2%	5%	101%
ARIZONA							
1930-1954	--	8%	57%	25%	2%	7%	99%
1955-1969	5%	7%	48%	24%	1%	14%	99%
HAWAII							
1930-1954	--	12%	49%	22%	2%	15%	100%
1955-1969	1%	11%	39%	22%	3%	24%	100%
IDAHO							
1930-1954	--	25%	57%	14%	2%	2%	100%
1955-1969	9%	23%	53%	14%	1%	1%	101%
MONTANA							
1930-1954	--	10%	68%	17%	1%	4%	100%
1955-1969	4%	12%	57%	19%	2%	5%	99%
NEVADA							
1930-1954	--	18%	51%	24%	4%	3%	100%
1955-1969	3%	20%	47%	21%	4%	5%	100%
NEW MEXICO							
1930-1954	--	9%	55%	25%	2%	9%	100%
1955-1969	5%	10%	49%	26%	2%	9%	101%
WYOMING							
1930-1954	--	13%	65%	19%	0%	2%	99%
1955-1969	11%	12%	47%	19%	2%	9%	100%
Eight Sending States Combined:							
1930-1954	--	12%	57%	22%	2%	7%	100%
1955-1969	5%	12%	47%	23%	2%	12%	101%
COLORADO, OREGON, UTAH, & WASHINGTON							
1930-1954	--	32%	47%	14%	2%	5%	100%
1955-1969	1%	31%	39%	19%	2%	8%	100%
CALIFORNIA							
1930-1954	--	33%	38%	19%	3%	8%	101%
1955-1969	0%	29%	35%	25%	3%	9%	101%
All WICHE States Combined:							
1930-1954	--	30%	42%	18%	3%	7%	100%
1955-1969	1%	26%	38%	23%	3%	9%	100%
Total U.S.							
1930-1954	--	7%	44%	33%	2%	14%	100%
1955-1969	--	7%	32%	32%	2%	28%	101%

WICHE STATES STUDENTS ENROLLED IN ENTERING CLASSES OF U.S. MEDICAL SCHOOLS

Table 5 shows the average number of students from each WICHE state enrolled in the entering classes of U.S. medical schools in 1973 and 1975, as reported in the Journal of the American Medical Association in December 1974 and December 1976. Breakdowns among pertinent groupings of schools are shown.

For each state, the number per 100,000 population and the number per 100 bachelors degrees granted in the state are also shown, with national figures for comparison. Population and degrees-granted figures used are those used in the publication cited.

The groupings of WICHE states are, first the four without medical schools, second the four with medical schools established since 1963, third the four with single medical schools of longer standing, and fourth California where there are now five public and three private schools.

The 31 selected non-WICHE schools reflected in column 4 are those listed individually in Appendix Table 1.

Table 5

NUMBER OF WICHE STATES STUDENTS ENROLLED IN ENTERING CLASSES OF U.S. MEDICAL SCHOOLS--AVERAGE ANNUAL NUMBER IN ENTERING CLASSES OF 1973 AND 1975

	Enrolled In							
	Home State Public School	Other WICHE Schools		Thirty-one Selected Non-WICHE Schools	Other U.S. Schools	Total*	Number Per 100,000 Population	Number per 100 B.S. Degrees Granted In State
		Public*	Private					
ALASKA	--	9(7)	1	0	1	11(7)	2.98	2.63
IDAHO	--	25(13)	0	4	4	32(13)	3.84	1.09
MONTANA	--	21(13)	0	8	3	32(13)	4.21	0.75
WYOMING	--	13	1	8	2	23	6.15	1.64
Four Combined	--	67(33)	1	19	10	97(33)	4.21	1.08
ARIZONA	71	7	5	11	9	101	4.52	1.16
HAWAII	61	4	2	9	6	81	9.36	2.53
NEVADA	42	3	1	1	1	48	8.02	3.65
NEW MEXICO	61	4	1	8	5	79	6.84	1.71
Four Combined	234	18	8	28	21	308	6.37	1.73
COLORADO	108	4	6	31	14	163	6.41	1.25
OREGON	106	4	7	6	10	132	5.77	1.25
UTAH	78	1	2	8	7	95	7.88	0.96
WASHINGTON	105	2	11	29	12	157	4.43	0.90
Four Combined	397	11	25	73	41	547	5.71	1.07
CALIFORNIA	479	15	238	178	174	1083	5.11	1.39
TOTAL WICHE	1109	110	272	298	245	2033	5.37	1.31
NATIONAL AVERAGE							6.62	1.60

*Figures in parentheses are enrollments at U. of Washington under the WAMI program.

NOTE: For ease of reading, figures which calculate to .5 are rounded to the next higher whole number. Thus, some totals will not agree with the sum of the individual items.

EIGHT "SENDING" STATES COMBINED

(See Tables 1-5 and Appendix for comparisons with individual states.)

There were 556 SEP graduates in medicine, up through 1970, and after eliminating those with temporary locations plus those classified in the category "deceased or unknown," there are 475 for whom a permanent location in 1976 was obtained.

One hundred fifty-six of the 475, or 33%, were located in the state which had sent them as exchange students. Thirty-eight were located in a sending state other than the one which had sent them, so that the total of SEP graduates located in the eight sending states represents 41% of the number of SEP graduates sent by the eight states. Another 189 graduates were located in the other five WICHE states, those which "received" exchange students during the SEP era used in this study. Thus 383 of the 475, or 81%, of the SEP graduates located with permanent addresses were located within the WICHE region.

In addition to the 194 SEP graduates located in the eight sending states, there were 505 non-SEP graduates of the WICHE medical schools located in these states, who had received the M.D. degree during the SEP era, 1955-1969. When these are combined with the SEP graduates, the total is 699 graduates during the SEP era from the WICHE region located in the eight sending states, compared to the 475 SEP graduates sent as exchange students by those states. When graduates of other schools are included, the number of SEP era graduates located in the eight sending states is 8.93 times the number of SEP graduates sent by the eight states.

SEP graduates represent 4.6% of all SEP era graduates located in the eight states and 2.3% of the 8,362 grand total shown in the table.

Of the 4,240 individuals located in the eight states in 1973 who had received the M.D. degree during the SEP era, 699 or 16% were graduates of the WICHE medical schools. Of the 4,122 who received the M.D. degree during the period 1930-1954, 495 or 12% were graduates of the WICHE schools.

Table 6

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE EIGHT SENDING STATES

WICHE SEP GRADUATES		PERSONS LISTED IN AMA DIRECTORY WITH SENDING STATE ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in home state in 1970	*150*	*156* Home state SEP*	
Located in other sending states	38	38* SEP from other sending states	
		96 Non-SEP grads of Calif. public inst.	
		101 Non-SEP grads of Calif. private inst.	
Located in California	82	197 Total non-SEP grads of Calif. inst.	
Located in Colorado	39	88 Non-SEP grads of U. of Colorado	
Located in Oregon	28	73 Non-SEP grads of U. of Oregon	
Located in Utah	16	68 Non-SEP grads of U. of Utah	
Located in Washington	24	79 Non-SEP grads of U. of Washington	
Total in other WICHE states	*227*	*543 Total from other WICHE states*	
Located in U.S. outside WICHE region --including all career military	91	2969 Grads of U.S. institutions outside WICHE region	
Located outside U.S.	1	572 Grads of institutions outside U.S.	
Total out-of-region & foreign	*92*	*3541 Total out-of-region & foreign*	
Total WICHE SEP graduates located with permanent addresses	*475*	*4240 Total graduates 1955 through 1969 located in sending states*	
Located with temporary addresses	61	PERSONS LISTED IN AMA DIRECTORY WITH SENDING STATE ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	20		
Total WICHE SEP graduates from SEP records	*556*	51 Grads of California public inst.	
		164 Grads of California private inst.	
*The total of 194 were graduates from:		128 Grads of U. of Colorado	
California Public Inst.	19	88 Grads of U. of Oregon	
California Private Inst.	16	50 Grads of U. of Utah**	
U. of Colorado	92	14 Grads of U. of Washington***	
U. of Oregon	33	3256 Grads of U.S. institutions outside WICHE region	
U. of Utah	26	371 Grads of institutions outside U.S.	
U. of Washington	8	*4122 Total graduates 1930 through 1954*	
	194	*8362 Grand total of persons who received degrees 1930 through 1969*	

**First graduates in 1945

***First graduates in 1950

ALASKA

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 21 SEP graduates in medicine through 1970 who were sent as exchange students by the State of Alaska and information was obtained as to their permanent location in 1976 on 19 of them.

Two of the 19, or 11%, were located in Alaska. Two SEP graduates from other sending states were also located in Alaska, so that the total of SEP graduates located in Alaska represents 21% of the number of SEP graduates sent by Alaska. As of 1973 there were 57 non-SEP graduates of the WICHE medical schools located in Alaska who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 61 graduates during the SEP era from the WICHE region located in Alaska compared to the 19 SEP graduates sent as exchange students by Alaska. When graduates of other schools are included, the number of SEP era graduates located in Alaska is 13.2 times the number of SEP graduates sent by Alaska.

SEP graduates represent 2% of all SEP era graduates located in Alaska and 1% of the 348 grand total shown in the table.

Of the 250 individuals located in Alaska in 1973 who had received the M.D. degree during 1955-1969, 61 or 24% were graduates of the WICHE medical schools. Of the 98 who received the M.D. degree during the period 1930-1954, 17 or 17% were graduates of the WICHE schools.

Table 6a

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF ALASKA

ALASKA SEP GRADUATES 1959 THROUGH 1970		PERSONS LISTED IN AMA DIRECTORY WITH ALASKAN ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in Alaska in 1970	*3*	*2*	*Alaska SEP*
Located in other sending states	1	2	SEP from other sending states
		7	Non-SEP grads of Calif. public inst.
		12	Non-SEP grads of Calif. private inst.
Located in California	3	19	Total non-SEP grads of Calif. inst.
Located in Colorado	0	9	Non-SEP grads of U. of Colorado
Located in Oregon	3	11	Non-SEP grads of U. of Oregon
Located in Utah	0	3	Non-SEP grads of U. of Utah
Located in Washington	4	15	Non-SEP grads of U. of Washington
Total in other WICHE states	*11*	*59*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	6	173	Grads of U.S. institutions outside WICHE region
Located outside U.S.	0	16	Grads of institutions outside U.S.
Total out-of-region & foreign	*6*	*189*	*Total out-of-region & foreign*
Total Alaska SEP located with permanent addresses	*19*	*332*	*Total graduates 1955 through 1969 located in Alaska*
Located with temporary addresses	1	PERSONS LISTED IN AMA DIRECTORY WITH ALASKAN ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	1		
Total Alaska SEP graduates from SEP records	*21*	2	Grads of California public inst.
		5	Grads of California private inst.
		3	Grads of U. of Colorado
		5	Grads of U. of Oregon
		0	Grads of U. of Utah*
		2	Grads of U. of Washington**
		76	Grads of U.S. institutions outside WICHE region
		5	Grads of institutions outside U.S.
First graduates in 1965		*98*	*Total graduates 1930 through 1954*
**First graduates in 1950		*581*	*Grand total of persons who received degrees 1930 through 1969*

ARIZONA

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 172 SEP graduates in medicine through 1970 who were sent as exchange students by the State of Arizona and information was obtained as to their permanent location in 1976 on 165 of them.

Seventy of the 165 or 42%, were located in Arizona. Ten SEP graduates from other sending states were also located in Arizona, so that the total of SEP graduates located in Arizona represents 48% of the number of SEP graduates sent by Arizona. As of 1973 there were 117 non-SEP graduates of the WICHE medical schools located in Arizona who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 197 graduates during the SEP era from the WICHE region located in Arizona compared to the 165 SEP graduates sent as exchange students by Arizona. When graduates of other schools are included, the number of SEP era graduates located in Arizona is 9.5 times the number of SEP graduates sent by Arizona.

SEP graduates represent 5% of all SEP era graduates located in Arizona and 3% of the 2,999 grand total shown in the table.

Of the 1,568 individuals located in Arizona in 1973 who had received the M.D. degree during 1955-1969, 197 or 13% were graduates of the WICHE medical schools. Of the 1,431 who received the M.D. degree during the period 1930-1954, 121 or 8% were graduates of the WICHE schools.

Table 6b

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF ARIZONA

ARIZONA SEP GRADUATES 1956 THROUGH 1970		PERSONS LISTED IN AMA DIRECTORY WITH ARIZONA ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in Arizona in 1976	*70*	*70*	*Arizona SEP*
Located in other sending states	9	10	SEP from other sending states
		28	Non-SEP grads of Calif. public inst.
		29	Non-SEP grads of Calif. private inst.
Located in California	33	57	Total non-SEP grads of Calif. inst.
Located in Colorado	10	15	Non-SEP grads of U. of Colorado
Located in Oregon	6	14	Non-SEP grads of U. of Oregon
Located in Utah	5	20	Non-SEP grads of U. of Utah
Located in Washington	2	11	Non-SEP grads of U. of Washington
Total in other WICHE states	*65*	*127*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	30	1128	Grads of U.S. institutions outside WICHE region
Located outside U.S.	0	243	Grads of institutions outside U.S.
Total out-of-region & foreign	*30*	*1371*	*Total out-of-region & foreign*
Total Arizona SEP located with permanent addresses	*165*	*1568*	*Total graduates 1955 through 1969 located in Arizona*
Located with temporary addresses	4	PERSONS LISTED IN AMA DIRECTORY WITH ARIZONA ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	3		
Total Arizona SEP graduates from SEP records	*172*	14	Grads of California public inst.
		43	Grads of California private inst.
		38	Grads of U. of Colorado
		12	Grads of U. of Oregon
		13	Grads of U. of Utah*
		1	Grad of U. of Washington**
		1184	Grads of U.S. institutions outside WICHE region
*First graduates in 1945		126	Grads of institutions outside U.S.
**First graduates in 1950		*1431*	*Total graduates 1930 through 1954*
		2999	*Grand total of persons who received degrees 1930 through 1969*

HAWAII

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 29 SEP graduates in medicine through 1970 who were sent as exchange students by the State of Hawaii and information was obtained as to their permanent location in 1976 on 21 of them.

Six of the 21, or 29%, were located in Hawaii. Two SEP graduates from other sending states were also located in Hawaii, so that the total of SEP graduates located in Hawaii represents 38% of the number of SEP graduates sent by Hawaii. As of 1973 there were 64 non-SEP graduates of the WICHE medical schools located in Hawaii who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 72 graduates during the SEP era from the WICHE region located in Hawaii, compared to the 21 SEP graduates sent as exchange students by Hawaii. When graduates of other schools are included, the number of SEP era graduates located in Hawaii is 29.0 times the number of SEP graduates sent by Hawaii.

SEP graduates represent 1% of all SEP era graduates located in Hawaii and 1% of the 1,217 grand total shown in the table.

Of the 608 individuals located in Hawaii in 1973 who had received the M.D. degree during 1955-1969, 72 or 12% were graduates of the WICHE medical schools. Of the 609 who received the M.D. degree during the period 1930-1954, 73 or 12% were graduates of the WICHE schools.

Table 6c

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF HAWAII

HAWAII SEP GRADUATES 1964 THROUGH 1970		PERSONS LISTED IN AMA DIRECTORY WITH HAWAII ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in Hawaii in 1976	*6*	*6*	*Hawaii SEP*
Located in other sending states	2	2	SEP from other sending states
		23	Non-SEP grads of Calif. public inst.
		13	Non-SEP grads of Calif. private inst.
Located in California	5	36	Total non-SEP grads of Calif. inst.
Located in Colorado	1	3	Non-SEP grads of U. of Colorado
Located in Oregon	2	13	Non-SEP grads of U. of Oregon
Located in Utah	0	2	Non-SEP grads of U. of Utah
Located in Washington	2	10	Non-SEP grads of U. of Washington
Total in other WICHE states	*12*	*66*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	3	368	Grads of U.S. institutions outside WICHE region
Located outside U.S.	0	168	Grads of institutions outside U.S.
Total out-of-region & foreign	*3*	*536*	*Total out-of-region & foreign*
Total Hawaii SEP located with permanent addresses	*21*	*608*	*Total graduates 1955 through 1969 located in Hawaii*
Located with temporary addresses	7	PERSONS LISTED IN AMA DIRECTORY WITH HAWAII ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	1	15	Grads of California public inst.
Total Hawaii SEP graduates from SEP records	*29*	37	Grads of California private inst.
		7	Grads of U. of Colorado
		10	Grads of U. of Oregon
		1	Grad of U. of Utah*
		3	Grads of U. of Washington**
		432	Grads of U.S. institutions outside WICHE region
		104	Grads of institutions outside U.S.
		609	*Total graduates 1930 through 1954*
		1217	*Grand total of persons who received degrees 1930 through 1969*

*First graduates in 1945

**First graduates in 1950

IDAHO

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 83 SEP graduates in medicine through 1970 who were sent as exchange students by the State of Idaho and information was obtained as to their permanent location in 1976 on 62 of them.

Twenty-four of the 62, or 39%, were located in Idaho. Six SEP graduates from other sending states were also located in Idaho, so that the total of SEP graduates located in Idaho represents 48% of the number of SEP graduates sent by Idaho. As of 1973 there were 78 non-SEP graduates of the WICHE medical schools located in Idaho who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 108 graduates during the SEP era from the WICHE region located in Idaho compared to the 62 SEP graduates sent as exchange students by Idaho. When graduates of other schools are included, the number of SEP era graduates located in Idaho is 5.5 times the number of SEP graduates sent by Idaho.

SEP graduates represent 9% of all SEP era graduates located in Idaho and 4% of the 754 grand total shown in the table.

Of the 343 individuals located in Idaho in 1973 who had received the M.D. degree during 1955-1969, 108 or 31% were graduates of the WICHE medical schools. Of the 411 who received the M.D. degree during the period 1930-1954, 102 or 25% were graduates of the WICHE schools.

Table 6d

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF IDAHO

IDAHO SEP GRADUATES 1962 THROUGH 1970		PERSONS LISTED IN AMA DIRECTORY WITH IDAHO ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in Idaho in 1976	*24*	*24*	*Idaho SEP*
Located in other sending states	4	6	SEP from other sending states
		6	Non-SEP grads of Calif. public inst.
		9	Non-SEP grads of Calif. private inst.
Located in California	6	15	Total non-SEP grads of Calif. inst.
Located in Colorado	2	8	Non-SEP grads of U. of Colorado
Located in Oregon	9	17	Non-SEP grads of U. of Oregon
Located in Utah	6	21	Non-SEP grads of U. of Utah
Located in Washington	4	17	Non-SEP grads of U. of Washington
Total in other WICHE states	*31*	*84*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	7	229	Grads of U.S. institutions outside WICHE region
Located outside U.S.	0	6	Grads of institutions outside U.S.
Total out-of-region & foreign	*7*	*235*	*Total out-of-region & foreign*
Total Idaho SEP located with permanent addresses	*62*	*343*	*Total graduates 1955 through 1969 located in Idaho*
Located with temporary addresses	20	PERSONS LISTED IN AMA DIRECTORY WITH IDAHO ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	1		
Total Idaho SEP graduates from SEP records	*83*	3	Grads of California public inst.
		19	Grads of California private inst.
		13	Grads of U. of Colorado
		43	Grads of U. of Oregon
		21	Grads of U. of Utah*
		3	Grads of U. of Washington**
		292	Grads of U.S. institutions outside WICHE region
		17	Grads of institutions outside U.S.
		411	*Total graduates 1930 through 1954*
		754	*Grand total of persons who received degrees 1930 through 1969*

*First graduates in 1945

**First gradautes in 1950

MONTANA

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 55 SEP graduates in medicine through 1970 who were sent as exchange students by the State of Montana and information was obtained as to their permanent location in 1976 on 43 of them.

Nine of the 43, or 21%, were located in Montana. Six SEP graduates from other sending states were also located in Montana, so that the total of SEP graduates located in Montana represents 35% of the number of SEP graduates sent by Montana. As of 1973 there were 43 non-SEP graduates of the WICHE medical schools located in Montana who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 58 graduates during the SEP era from the WICHE region located in Montana compared to the 43 SEP graduates sent as exchange students by Montana. When graduates of other schools are included, the number of SEP era graduates located in Montana is 8.0 times the number of SEP graduates sent by Montana.

SEP graduates represent 4% of all SEP era graduates located in Montana and 2% of the 766 grand total shown in the table.

Of the 345 individuals located in Montana in 1973 who had received the M.D. degree during 1955-1969, 58 or 17% were graduates of the WICHE medical schools. Of the 421 who received the M.D. degree during the period 1930-1954, 41 or 10% were graduates of the WICHE schools.

Table 6e

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF MONTANA

MONTANA SEP GRADUATES 1957 THROUGH 1970		PERSONS LISTED IN AMA DIRECTORY WITH MONTANA ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in Montana in 1976	*9*	*9*	*Montana SEP*
Located in other sending states	3	6	SEP from other sending states
		3	Non-SEP grads of Calif. public inst.
		6	Non-SEP grads of Calif. private inst.
Located in California	1	9	Total non-SEP grads of Calif. inst.
Located in Colorado	4	11	Non-SEP grads of U. of Colorado
Located in Oregon	6	8	Non-SEP grads of U. of Oregon
Located in Utah	2	4	Non-SEP grads of U. of Utah
Located in Washington	10	11	Non-SEP grads of U. of Washington
Total in other WICHE states	*26*	*49*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	8	263	Grads of U.S. institutions outside WICHE region
Located outside U.S.	0	24	Grads of institutions outside U.S.
Total out-of-region & foreign	*8*	*287*	*Total out-of-region & foreign*
Total Montana SEP located with permanent addresses	*43*	*345*	*Total graduates 1955 through 1969 located in Montana*
Located with temporary addresses	9	PERSONS LISTED IN AMA DIRECTORY WITH MONTANA ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	3		
Total Montana SEP graduates from SEP records	*55*	2	Grads of California public inst.
		16	Grads of California private inst.
		10	Grads of U. of Colorado
		9	Grads of U. of Oregon
		3	Grads of U. of Utah*
		1	Grad of U. of Washington**
		360	Grads of U.S. institutions outside WICHE region
		20	Grads of institutions outside U.S.
		421	*Total graduates 1930 through 1954*
		766	*Grand total of persons who received degrees 1930 through 1969*

*First graduates in 1945

**First graduates in 1950

NEVADA

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 20 SEP graduates in medicine through 1970 who were sent as exchange students by the State of Nevada and information was obtained as to their permanent location in 1976 on 14 of them.

Four of the 14, or 29%, were located in Nevada. Four SEP graduates from other sending states were also located in Nevada, so that the total of SEP graduates located in Nevada represents 57% of the number of SEP graduates sent by Nevada. As of 1973 there were 63 non-SEP graduates of the WICHE medical schools located in Nevada who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 71 graduates during the SEP era from the WICHE region located in Nevada compared to the 14 SEP graduates sent as exchange students by Nevada. When graduates of other schools are included, the number of SEP era graduates located in Nevada is 22.4 times the number of SEP graduates sent by Nevada.

SEP graduates represent 3% of all SEP era graduates located in Nevada and 1% of the 643 grand total shown in the table.

Of the 314 individuals located in Nevada in 1973 who had received the M.D. degree during 1955-1969, 71 or 23% were graduates of the WICHE medical schools. Of the 329 who received the M.D. degree during the period 1930-1954, 60 or 18% were graduates of the WICHE schools.

Table 6f

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF NEVADA

NEVADA SEP GRADUATES 1962 THROUGH 1970		PERSONS LISTED IN AMA DIRECTORY WITH NEVADA ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in Nevada in 1976	*4*	*4*	*Nevada SEP*
Located in other sending states	1	4	SEP from other sending states
		19	Non-SEP grads of Calif. public inst.
		21	Non-SEP grads of Calif. private inst.
Located in California	4	40	Total non-SEP grads of Calif. inst.
Located in Colorado	0	6	Non-SEP grads of U. of Colorado
Located in Oregon	1	5	Non-SEP grads of U. of Oregon
Located in Utah	0	9	Non-SEP grads of U. of Utah
Located in Washington	0	3	Non-SEP grads of U. of Washington
Total in other WICHE states	*6*	*67*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	3	215	Grads of U.S. institutions outside WICHE region
Located outside U.S.	1	28	Grads of institutions outside U.S.
Total out-of-region & foreign	*4*	*243*	*Total out-of-region & foreign*
Total Nevada SEP located with permanent addresses	*14*	*314*	*Total graduates 1955 through 1969 located in Nevada*
Located with temporary addresses	6	PERSONS LISTED IN AMA DIRECTORY WITH NEVADA ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	0	6	Grads of Calif. public inst.
Total Nevada SEP graduates from SEP records	*20*	32	Grads of Calif. private inst.
		8	Grads of U. of Colorado
		6	Grads of U. of Oregon
		7	Grads of U. of Utah*
		1	Grad of U. of Washington**
		246	Grads of U.S. institutions outside WICHE region
		23	Grads of institutions outside U.S.
		329	*Total graduates 1930 through 1954*
*First graduates in 1945		*643*	*Grand total of persons who received degrees 1930 through 1969*
**First graduates in 1950			

NEW MEXICO

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 100 SEP graduates in medicine 1954-1968 who were sent as exchange students by the State of New Mexico and information was obtained as to their permanent location in 1976 on 91 of them.

Twenty-five of the 91, or 27%, were located in New Mexico. Six SEP graduates from other sending states were also located in New Mexico, so that the total of SEP graduates located in New Mexico represents 34% of the number of SEP graduates sent by New Mexico. As of 1973 there were 63 non-SEP graduates of the WICHE medical schools located in New Mexico who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 94 graduates during the SEP era from the WICHE region located in New Mexico compared to the 91 SEP graduates sent as exchange students by New Mexico. When graduates of other schools are included, the number of SEP era graduates located in New Mexico is 7.2 times the number of SEP graduates sent by New Mexico.

SEP graduates represent 5% of all SEP era graduates located in New Mexico and 2% of the 1,271 grand total shown in the table.

Of the 651 individuals located in New Mexico in 1973 who had received the M.D. degree during 1955-1969, 94 or 14% were graduates of the WICHE medical schools. Of the 620 who received the M.D. degree during the period 1930-1954, 54 or 9% were graduates of the WICHE schools.

Table 6g

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND
TOTAL MEDICAL MANPOWER IN THE STATE OF NEW MEXICO

NEW MEXICO SEP GRADUATES 1954 THROUGH 1968		PERSONS LISTED IN AMA DIRECTORY WITH NEW MEXICO ADDRESSES WHO RECEIVED M.D. IN 1955 THROUGH 1969--ADJUSTED	
Located in New Mexico in 1978	*38*	*38*	*New Mexico SEP*
Located in other sending states	11	6	SEP from other sending states
		9	Non-SEP grads of Calif. public inst.
		8	Non-SEP grads of Calif. private inst.
Located in California	19	17	Total non-SEP grads of Calif. inst.
Located in Colorado	14	29	Non-SEP grads of U. of Colorado
Located in Oregon	0	4	Non-SEP grads of U. of Oregon
Located in Utah	1	4	Non-SEP grads of U. of Utah
Located in Washington	0	9	Non-SEP grads of U. of Washington
Total in other WICHE states	*45*	*69*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	21	487	Grads of U.S. institutions outside WICHE region
Located outside U.S.	0	70	Grads of institutions outside U.S.
Total out-of-region & foreign	*21*	*557*	*Total out-of-region & foreign*
Total New Mexico SEP located with permanent addresses	*91*	*651*	*Total graduates 1955 through 1969 located in New Mexico*
Located with temporary addresses	6	PERSONS LISTED IN AMA DIRECTORY WITH NEW MEXICO ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	3		
Total New Mexico SEP graduates from SEP records	*100*	7	Grads of California public inst.
		8	Grads of California private inst.
		32	Grads of U. of Colorado
		3	Grads of U. of Oregon
		3	Grads of U. of Utah*
		1	Grad of U. of Washington**
		495	Grads of U.S. institutions outside WICHE region
		71	Grads of institutions outside U.S.
		620	*Total graduates 1930 through 1954*
*First graduates in 1945		*1271*	*Grand total of persons who received degrees 1930 through 1969*
**First graduates in 1950			

WYOMING

(See Tables 1-5 and Appendix for comparisons with other states.)

There were 76 SEP graduates in medicine through 1970 who were sent as exchange students by the State of Wyoming and information was obtained as to their permanent location in 1976 on 60 of them.

Sixteen of the 60, or 27%, were located in Wyoming. Two SEP graduates from other sending states were also located in Wyoming, so that the total of SEP graduates located in Wyoming represents 30% of the number of SEP graduates sent by Wyoming. As of 1973 there were 20 non-SEP graduates of the WICHE medical schools located in Wyoming who had received the M.D. degree during the period 1955-1969, which is approximately the SEP era for this study. When these are included, the total is 38 graduates during the SEP era from the WICHE region located in Wyoming compared to the 60 SEP graduates sent as exchange students by Wyoming. When graduates of other schools are included, the number of SEP era graduates located in Wyoming is 2.7 times the number of SEP graduates sent by Wyoming.

SEP graduates represent 11% of all SEP era graduates located in Wyoming and 5% of the 364 grand total shown in the table.

Of the 161 individuals located in Wyoming in 1973 who had received the M.D. degree during 1955-1969, 38 or 24% were graduates of the WICHE medical schools. Of the 203 who received the M.D. degree during the period 1930-1954, 27 or 13% were graduates of the WICHE schools.

Table 6h

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND
TOTAL MEDICAL MANPOWER IN THE STATE OF WYOMING

WYOMING SEP GRADUATES 1954 THROUGH 1970		PERSONS LISTED IN AMA DIRECTORY WITH WYOMING ADDRESSES WHO RECEIVED M.D. IN 1956 THROUGH 1969--ADJUSTED	
Located in Wyoming in 1970	*10*	*10*	*Wyoming SEP*
Located in other sending states	7	2	SEP from other sending states
		1	Non-SEP grad of Calif. public inst.
		3	Non-SEP grads of Calif. private inst.
Located in California	11	4	Total non-SEP grads of Calif. inst.
Located in Colorado	8	7	Non-SEP grads of U. of Colorado
Located in Oregon	1	1	Non-SEP grad of U. of Oregon
Located in Utah	2	5	Non-SEP grads of U. of Utah
Located in Washington	2	3	Non-SEP grads of U. of Washington
Total in other WICHE states	*31*	*22*	*Total from other WICHE states*
Located in U.S. outside WICHE region --including all career military	13	106	Grads of U.S. institutions outside WICHE region
Located outside U.S.	0	17	Grads of institutions outside U.S.
Total out-of-region & foreign	*13*	*123*	*Total out-of-region & foreign*
Total Wyoming SEP located with permanent addresses	*60*	*141*	*Total graduates 1953 through 1969 located in Wyoming*
Located with temporary addresses	0	PERSONS LISTED IN AMA DIRECTORY WITH WYOMING ADDRESSES WHO RECEIVED M.D. 1930 THROUGH 1954	
Deceased or unknown	0	2	Grads of California public inst.
Total Wyoming SEP graduates from SEP records	*70*	8	Grads of California private inst.
		17	Grads of U. of Colorado
		0	Grads of U. of Oregon
		2	Grads of U. of Utah*
		2	Grads of U. of Washington**
		171	Grads of U.S. institutions outside WICHE region
		5	Grads of institutions outside U.S.
		205	*Total graduates 1930 through 1954*
		346	*Grand total of persons who received degrees 1930 through 1969*

*First graduates in 1945

**First graduates in 1950

FIVE "RECEIVING" STATES COMBINED

(See Tables 1-5 for comparisons with individual states.)

There were 189 WICHE SEP graduates in medicine located in the five "receiving" states. These 189 represent 0.7% of the 25,708 individuals located in the five states in 1973 who had received the M.D. degree during the SEP era, 1955-1969, and 0.4% of the 51,605 grand total shown in the table.

Of the 25,708 graduates of the SEP era located in the five states, 30% were graduates of the WICHE medical schools. Among those located in the five states who received the M.D. during 1930-1954, 33% were graduates of the WICHE schools.

Table 7

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND
TOTAL MEDICAL MANPOWER IN THE FIVE RECEIVING STATES COMBINED

PERSONS LISTED IN AMA DIRECTORY WITH RECEIVING STATE ADDRESSES WHO RECEIVED M.D. DEGREE IN 1955 THROUGH 1969

189*	WICHE SEP graduates from 8 sending states
2125	Non-SEP grads of Calif. public inst.
2769	Non-SEP grads of Calif. private inst.
4894	Total non-SEP grads of Calif. inst.
568	Non-SEP grads of U. of Colorado
718	Non-SEP grads of U. of Oregon
477	Non-SEP grads of U. of Utah
722	Non-SEP grads of U. of Washington
*7618***	*Total from WICHE states*
15152	Grads of U.S. institutions outside WICHE region
2938	Grads of institutions outside U.S.
18090	*Total out-of-region & foreign*
25708	*Total graduates 1955 through 1969 located in receiving states*

PERSONS LISTED IN AMA DIRECTORY WITH RECEIVING STATE ADDRESSES WHO RECEIVED M.D. DEGREE IN 1930 THROUGH 1954

1273	Grads of Calif. public inst.
4838	Grads of Calif. private inst.
737	Grads of U. of Colorado
1077	Grads of U. of Oregon
297	Grads of U. of Utah***
206	Grads of U. of Washington****
14931	Grads of U.S. institutions outside WICHE region
2538	Grads of institutions outside U.S.
25897	*Total graduates 1930 through 1954*
51605	*Grand total of persons who received M.D. degree 1930 through 1969*

*Graduates from:

California Public Inst.	16
California Private Inst.	26
U. of Colorado	81
U. of Oregon	32
U. of Utah	18
U. of Washington	14
U. of New Mexico	2
	189

**Includes 50 graduates during the 1960's of the Washington College of Physicians and Surgeons, now extinct.

***First graduates in 1945

****First graduates in 1950

CALIFORNIA

(See Tables 1-5 for comparisons with other states.)

There were 82 SEP graduates in medicine located in California. Only 34 of these were graduates of the California public and private medical schools whereas 36 were graduates of the Colorado medical school. The 82 represent 0.4% of the 18,467 individuals located in California in 1973 who received the M.D. degree during the SEP era, 1950-1969, and 0.2% of the 37,894 grand total shown in the table.

Of the 18,467 graduates of the SEP era located in California, 11% were graduates of the California public institutions and 14% were graduates of the California private institutions. Graduates of all the WICHE schools total 5,270 and represent 29% of all SEP era graduates located in California. Among those located in California who received the M.D. during 1930-1954, 6% were graduates of the California public institutions, 24% were graduates of California private institutions, and 33% were graduates of all the WICHE schools combined.

Table 7a

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF CALIFORNIA

PERSONS LISTED IN AMA DIRECTORY WITH CALIFORNIA ADDRESSES WHO RECEIVED M.D. DEGREE IN 1955 THROUGH 1969	
82*	WICHE SEP graduates from 8 sending states
1979	Non-SEP grads of Calif. public inst.**
2550	Non-SEP grads of Calif. private inst.**
4529	Total non-SEP grads of Calif. inst.
145	Non-SEP grads of U. of Colorado
187	Non-SEP grads of U. of Oregon
144	Non-SEP grads of U. of Utah
183	Non-SEP grads of U. of Washington
5270	*Total from WICHE states*
10966	Grads of U.S. institutions outside WICHE region
2231	Grads of institutions outside U.S.
13197	*Total out-of-region & foreign*
18467	*Total graduates 1955 through 1969 Located in California*

PERSONS LISTED IN AMA DIRECTORY WITH CALIFORNIA ADDRESSES WHO RECEIVED M.D. DEGREE IN 1930 THROUGH 1954	
1233	Grads of Calif. public inst.
4569	Grads of Calif. private inst.**
187	Grads of U. of Colorado
235	Grads of U. of Oregon
95	Grads of U. of Utah***
51	Grads of U. of Washington****
10963	Grads of U.S. institutions outside WICHE region
2094	Grads of institutions outside U.S.
19427	*Total graduates 1930 through 1954*
37894	*Grand total of persons who received M.D. degree 1930 through 1969*

*Graduates from:

California Public Inst.	16
California Private Inst.	18
U. of Colorado	36
U. of Oregon	5
U. of Utah	3
U. of Washington	3
U. of New Mexico	1
	82

**The source data show 2,299 M.D.'s located in California who recieved the M.D. from the University of California, Irvine in the period 1960-64. This figure includes M.D.'s conferred upon earlier graduates of the College of Osteopath Physicians and Surgeons. This total is distributed on an estimate basis as follows: 1955-1969, public--370; 1955-1969, private--600; 1930-1954, private--1,485; and before 1930--150.

***First graduates in 1945

****First graduates in 1950

COLORADO

(See Table 1-5 for comparisons with other states.)

There were 39 SEP graduates in medicine located in Colorado. Thirty-one of these were graduates of the Colorado medical school. The 39 represent 2% of the 2,252 individuals located in Colorado in 1973 who received the M.D. degree during the SEP era, 1955-1969, and 1% of the 3,916 grand total shown in the table.

Of the 2,252 graduates of the SEP era located in Colorado, 18% were graduates of the Colorado medical school. Graduates of all the WICHE schools total 515 and represent 23% of all SEP era graduates located in Colorado. Among those located in Colorado who received the M.D. during 1930-1954, 29% were graduates of the Colorado medical school and 33% were graduates of all the WICHE schools combined.

Table 7b

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN THE STATE OF COLORADO

PERSONS LISTED IN AMA DIRECTORY WITH COLORADO ADDRESSES WHO RECEIVED M.D. DEGREE IN 1955 THROUGH 1969

39*	WICHE SEP graduates from 8 sending states
31	Non-SEP grads of Calif. public inst.
45	Non-SEP grads of Calif. private inst.
76	Total non-SEP grads of Calif. inst.
364	Non-SEP grads of U. of Colorado
12	Non-SEP grads of U. of Oregon
12	Non-SEP grads of U. of Utah
12	Non-SEP grads of U. of Washington
515	*Total from WICHE states*
1566	Grads of U.S. institutions outside WICHE region
171	Grads of institutions outside U.S.
1737	*Total from out-of-region & foreign*
2252	*Total graduates 1955 through 1969 located in Colorado*

PERSONS LISTED IN AMA DIRECTORY WITH COLORADO ADDRESSES WHO RECEIVED M.D. DEGREE IN 1930 THROUGH 1954

10	Grads of Calif. public inst.
37	Grads of Calif. private inst.
488	Grads of U. of Colorado
9	Grads of U. of Oregon
5	Grads of U. of Utah**
1	Grads of U. of Washington***
1025	Grads of U.S. institutions outside WICHE region
89	Grads of institutions outside U.S.
1664	*Total graduates 1930 through 1954*
3916	*Grand total of persons who received M.D. degree 1930 through 1969*

*Graduates from:

California Public Inst.	0
California Private Inst.	3
U. of Colorado	31
U. of Oregon	1
U. of Utah	1
U. of Washington	2
U. of New Mexico	1
	39

**First graduates in 1945

***First graduates in 1950

OREGON

(See Tables 1-5 for comparisons with other states.)

There were 28 SEP graduates in medicine located in Oregon. Eighteen of these were graduates of the Oregon medical school. The 28 represent 2% of the 1,613 individuals located in Oregon in 1973 who received the M.D. degree during the SEP era, 1955-1969, and 1% of the 3,152 grand total shown in the table.

Of the 1,613 graduates of the SEP era located in Oregon, 27% were graduates of the Oregon medical school. Graduates of all the WICHE schools total 634 and represent 39% of all SEP era graduates located in Oregon. Among those located in Oregon who received the M.D. during 1930-1954, 36% were graduates of the Oregon medical school and 44% were graduates of all the WICHE schools combined.

Table 7c

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND
TOTAL MEDICAL MANPOWER IN THE STATE OF OREGON

PERSONS LISTED IN AMA DIRECTORY WITH OREGON ADDRESSES WHO RECEIVED M.D. DEGREE IN 1955 THROUGH 1969	
28*	WICHE SEP graduates from 8 sending states
43	Non-SEP grads of Calif. public inst.
67	Non-SEP grads of Calif. private inst.
110	Total non-SEP grads of Calif. inst.
22	Non-SEP grads of U. of Colorado
424	Non-SEP grads of U. of Oregon
10	Non-SEP grads of U. of Utah
40	Non-SEP grads of U. of Washington
634	*Total from WICHE states*
836	Grads of U.S. institutions outside WICHE region
143	Grads of institutions outside U.S.
979	*Total out-of-region & foreign*
1613	*Total graduates 1955 through 1969 located in Oregon*

PERSONS LISTED IN AMA DIRECTORY WITH OREGON ADDRESSES WHO RECEIVED M.D. DEGREE IN 1930 THROUGH 1954	
8	Grads of Calif. public inst.
84	Grads of Calif. private inst.
24	Grads of U. of Colorado
551	Grads of U. of Oregon
6	Grads of U. of Utah**
8	Grads of U. of Washington***
787	Grads of U.S. institutions outside WICHE region
71	Grads of institutions outside U.S.
1539	*Total graduates 1930 through 1954*
3152	*Grand total of persons who received M.D. degree 1930 through 1969*

*Graduates from:

California Public Inst.	0
California Private Inst.	2
U. of Colorado	4
U. of Oregon	18
U. of Utah	2
U. of Washington	2
	28

**First graduates in 1945

***First graduates in 1950

UTAH

(See Tables 1-5 for comparisons with other states.)

There were 16 SEP graduates in medicine located in Utah. Eleven of these were graduates of the Utah medical school. The 16 represent 2% of the 778 individuals located in Utah in 1973 who received the M.D. degree during the SEP era 1955-1969, and 1% of the 1,463 grand total shown in the table.

Of the 778 graduates of the SEP era located in Utah, 38% were graduates of the Utah medical school. Graduates of all the WICHE schools total 359 and represent 46% of all SEP era graduates located in Utah. Among those located in Utah who received the M.D. during 1930-1954, 25% were graduates of the Utah medical school and 32% were graduates of all the WICHE schools combined. The Utah medical school had its first M.D. graduates in 1945.

Table 7d

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND
TOTAL MEDICAL MANPOWER IN THE STATE OF UTAH

PERSONS LISTED IN AMA DIRECTORY WITH UTAH ADDRESSES WHO RECEIVED M.D. DEGREE IN 1955 THROUGH 1969

16*	WICHE SEP graduates from 8 sending states
14	Non-SEP grads of Calif. public inst.
23	Non-SEP grads of Calif. private inst.
37	Total non-SEP grads of Calif. inst.
4	Non-SEP grads of U. of Colorado
8	Non-SEP grads of U. of Oregon
287	Non-SEP grads of U. of Utah
7	Non-SEP grads of U. of Washington
359	*Total from WICHE states*
364	Grads of U.S. institutions outside WICHE region
55	Grads of institutions outside U.S.
419	*Total out-of-region & foreign*
778	*Total graduates 1955 through 1969 located in Utah*

PERSONS LISTED IN AMA DIRECTORY WITH UTAH ADDRESSES WHO RECEIVED M.D. DEGREE IN 1930 THROUGH 1954

7	Grads of Calif. public inst.
11	Grads of Calif. private inst.
14	Grads of U. of Colorado
12	Grads of U. of Oregon
174	Grads of U. of Utah**
2	Grads of U. of Washington***
453	Grads of U.S. institutions outside WICHE region
12	Grads of institutions outside U.S.
685	*Total graduates 1930 through 1954*
1463	*Grand total of persons who received M.D. degree 1930 through 1969*

*Graduates from:

California Public Inst.	0
California Private Inst.	0
U. of Colorado	2
U. of Oregon	3
U. of Utah	11
U. of Washington	0
	16

**First graduates in 1945

***First graduates in 1950

WASHINGTON

(See Tables 1-5 for comparisons with other states.)

There were 24 SEP graduates in medicine located in Washington. Seven of these were graduates of the Washington medical school whereas 8 were graduates of the Colorado medical school. The 24 represent 1% of the 2,598 individuals located in Washington in 1973 who received the M.D. degree during the SEP era 1955-1969, and 0.5% of the 5,180 grand total shown in the table.

Of the 2,598 graduates of the SEP era located in Washington, 19% were graduates of the Washington medical school. Graduates of all the WICHE schools total 840 and represent 32% of all SEP era graduates located in Washington. Among those located in Washington who received the M.D. during 1930-1954, 6% were graduates of the Washington medical school and 24% were graduates of all the WICHE schools combined. The Washington medical school had its first M.D. graduates in 1950.

Table 7e

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND
TOTAL MEDICAL MANPOWER IN THE STATE OF WASHINGTON

PERSONS LISTED IN AMA DIRECTORY WITH WASHINGTON ADDRESSES WHO RECEIVED M.D. DEGREE IN 1955 THROUGH 1969

24*	WICHE SEP graduates from 8 sending states
58	Non-SEP grads of Calif. public inst.
84	Non-SEP grads of Calif. private inst.
142	Total non-SEP grads of Calif. inst.
33	Non-SEP grads of U. of Colorado
87	Non-SEP grads of U. of Oregon
24	Non-SEP grads of U. of Utah
480	Non-SEP grads of U. of Washington
*940***	*Total from WICHE states*
1420	Grads of U.S. institutions outside WICHE region
338	Grads of institutions outside U.S.
1758	*Total out-of-region & foreign*
2698	*Total graduates 1955 through 1969 located in Washington*

PERSONS LISTED IN AMA DIRECTORY WITH WASHINGTON ADDRESSES WHO RECEIVED M.D. DEGREE IN 1930 THROUGH 1954

15	Grads of Calif. public inst.
137	Grads of Calif. private inst.
24	Grads of U. of Colorado
270	Grads of U. of Oregon
17	Grads of U. of Utah***
144	Grads of U. of Washington****
1703	Grads of U.S. institutions outside WICHE region
272	Grads of institutions outside U.S.
2582	*Total graduates 1930 through 1954*
5180	*Grand total of persons who received M.D. degree 1930 through 1969*

*Graduates from:

California Public Inst.	0
California Private Inst.	3
U. of Colorado	8
U. of Oregon	5
U. of Utah	1
U. of Washington	7
	24

**Includes 50 graduates during the 1960's of Washington College of Physicians and Surgeons, now extinct.

***First graduates in 1945

****First graduates in 1950

ALL THIRTEEN WICHE STATES COMBINED

(See Tables 1-5 for comparisons with individual states.)

There were a total of 556 SEP graduates in medicine up through 1970 and information was obtained, as to permanent location in 1976, on 475 of them. One-hundred fifty-six of the 475, or 33%, were located in the state which had "sent" them as exchange students. Another 227, or 48%,were located in other WICHE states. Thus, 81% were located in the WICHE region.

There were 8,317 graduates of the WICHE medical schools located in the WICHE region, who had received the M.D. degree during the SEP era, 1955-1969, and 383 of these, or 4.6%, were SEP graduates. When graduates of other schools are included, total SEP era graduates located in the WICHE region are 29,948, and the SEP graduates represent 1.3% of this total. SEP graduates represent 0.6% of the 59,967 grand total shown in the table.

The 8,317 graduates of the WICHE medical schools during the SEP era, located in the WICHE region in 1973, represent 28% of the total SEP era medical doctors located in the region. Among those who received the M.D. during 1930-1954, graduates of the WICHE schools represent 30% of the total.

When SEP graduates are combined with non-SEP graduates, we get the following overall figures:

	1955-1969 SEP	1955-1969 Non-SEP	1930-1954	TOTAL
California Public	35	2221	1324	3580
California Private	42	2870	5002	7914
U. of Colorado	173	656	865	1694
U. of Oregon	65	791	1165	2021
U. of Utah	44	545	347	936
U. of Washington	22	801	220	1043
U. of New Mexico	2	--	--	2
Washington, Extinct	___	50	___	50
	383	7934	8923	17,240

Table 6

ANALYSIS OF WICHE SEP GRADUATES IN MEDICINE AND TOTAL MEDICAL MANPOWER IN ALL WICHE STATES

WICHE SEP GRADUATES		PERSONS LISTED IN AMA DIRECTORY WITH WICHE REGION ADDRESSES WHO RECEIVED M.D. DEGREE IN 1955 THROUGH 1969	
Located in home state in 1970	*160*	*160*	*Home state SEP*
Located in other WICHE states	227	227	Other SEP
		2221	Non-SEP grads of Calif. public inst.
		2870	Non-SEP grads of Calif. private inst.
		5091	Total non-SEP grads of Calif. inst.
		656	Non-SEP grads of U. of Colorado
		791	Non-SEP grads of U. of Oregon
		545	Non-SEP grads of U. of Utah
		801	Non-SEP grads of U. of Washington
Total SEP grads located in WICHE states	*387*	*8161**	*Total in WICHE region other than home state SEP*
Located in U.S. outside WICHE region	91	10121	Grads of U.S. institutions outside WICHE region
Located outside U.S.	1	3510	Grads of institutions outside U.S.
Total out-of-region & foreign	*92*	*21631*	*Total out-of-region & foreign*
Total WICHE SEP graduates located with permanent addresses	*479*	*30048*	*Total graduates 1955 through 1969 located in all WICHE states*
Located with temporary addresses	61	PERSONS LISTED IN AMA DIRECTORY WITH WICHE REGION ADDRESSES WHO RECEIVED M.D. DEGREE in 1930 THROUGH 1954	
Deceased or unknown	20		
Total WICHE SEP graduates from SEP records	*560*	1324	Grads of Calif. public inst.
		5002	Grads of Calif. private inst.
		865	Grads of U. of Colorado
		1165	Grads of U. of Oregon
		347	Grads of U. of Utah**
		220	Grads of U. of Washington***
		18187	Grads of U.S. institutions outside WICHE region
		2909	Grads of institutions outside U.S.
		30019	*Total graduates 1930 through 1954*
		48067	*Grand total of persons who received M.D. degree 1930 through 1969*

*Includes 50 graduates during the 1960's of Washington College of Physicians and Surgeons, now extinct.

**first graduates in 1945

***first graduates in 1950

APPENDIX

SOURCE OF MEDICAL DOCTORS IN THE EIGHT WICHE SENDING STATES BY SCHOOL FROM WHICH M.D. WAS RECEIVED AND TIME PERIOD WHEN M.D. WAS RECEIVED

As noted in the body of this report, only 16% of the M.D.'s located in the eight sending states in 1973, who had received the M.D. during the SEP era, 1955-1969, were graduates of the WICHE medical schools, and only 12% of those who had received the degree during 1930-1954 were graduates of the WICHE schools. Appendix Table 1 details the numbers of M.D.'s having received the degree from each of the WICHE schools and for each of the 31 non-WICHE schools supplying the largest numbers of M.D.'s in the eight sending states. Numbers for the remaining U.S. schools and for Canadian and foreign schools are also shown, to round out the picture.

Table 4 in the main body of the report shows percentage distributions based on these data.

Appendix Table 1

ANALYSIS OF MEDICAL DOCTORS LOCATED IN THE WICHE SENDING STATES IN 1973 BY SCHOOL FROM WHICH THEY RECEIVED THE M.D. DEGREE AND BY TIME PERIOD WHEN DEGREE WAS RECEIVED, 1930-1954 OR 1955-1969

Institution Granting M.D.	WICHE SENDING STATES																	
	ALASKA		ARIZONA		HAWAII		IDAHO		MONTANA		NEVADA		NEW MEXICO		WYOMING		COMBINED	
	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969
Within WICHE Region:																		
U. of Calif., Irvine	--	1	--	13	--	3	--	2	--	2	--	8	--	1	--	1	--	31
U. of Calif., Los Angeles	--	2	--	12	--	13	--	2	--	0	--	4	--	6	--	0	--	39
U. of Calif., San Fran.	2	4	14	15	15	9	3	3	2	4	6	7	7	3	2	0	51	45
Total California Public	2	7	14	40	15	25	3	7	2	6	6	19	7	10	2	1	51	115
Loma Linda U.	2	5	17	8	18	4	12	7	10	2	9	5	5	2	1	2	74	35
Stanford U.	3	4	13	16	11	6	6	1	5	3	10	6	0	6	1	0	4[a]	42
U. of Southern California	0	4	13	15	8	3	1	3	1	1	13	12	3	1	2	1	41	40
Total California Private	5	13	43	39	37	13	19	11	16	6	32	23	8	9	4	3	164	117
U. of Colorado	3	11	38	56	7	5	13	13	10	12	8	7	32	55	17	21	128	180
U. of Oregon	5	12	12	20	10	15	43	30	9	13	6	7	3	6	0	3	88	106
U. of Utah	0	3	13	31	1	2	21	26	3	8	7	12	3	5	2	7	50	94
U. of Washington	2	15	1	11	3	12	3	21	1	13	1	3	1	9	2	3	14	87
TOTAL Within WICHE	17	61	121	197	73	72	102	108	41	58	60	71	54	94	27	38	495	699
Outside WICHE Region:																		
Northwestern U.	4	5	65	35	28	21	30	12	40	15	13	6	25	16	7	6	212	116
Indiana U.	1	4	26	52	10	6	5	7	4	6	1	11	10	12	3	3	60	101
U. of Illinois	2	4	58	48	6	5	7	6	12	6	9	10	13	13	5	2	112	94
U. of Kansas	1	3	25	31	4	7	7	11	9	8	3	5	13	17	8	7	70	93
U. of Nebraska	2	3	37	24	5	6	9	9	18	13	4	9	4	9	17	13	96	86
U. of Michigan	2	3	33	28	18	12	6	6	14	5	11	9	15	18	5	2	104	83
Ohio State U.	0	6	11	42	4	4	3	2	2	9	3	8	10	12	2	0	35	83
Tulane U.	0	5	24	24	22	19	4	4	1	6	7	5	15	11	4	4	77	78
St. Louis U.	3	3	32	24	14	10	11	8	21	12	11	7	14	8	5	4	111	76
George Washington U.	1	6	20	19	4	5	10	19	1	6	7	9	8	10	4	1	55	75
U. of Minnesota	1	6	47	18	6	7	15	4	46	21	16	7	14	6	8	6	153	75
Washington U. (St. Louis)	1	2	23	13	22	15	12	10	11	13	5	8	11	12	5	0	90	73
Creighton U.	0	1	29	24	22	16	10	10	16	6	6	7	7	5	9	2	99	71

Appendix Table 1, Continued

Institution Granting M.D.	WICHE SENDING STATES																	
	ALASKA		ARIZONA		HAWAII		IDAHO		MONTANA		NEVADA		NEW MEXICO		WYOMING		COMBINED	
	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1055-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969	1930-1954	1955-1969
Outside WICHE Region, Cont.:																		
U. of Iowa	0	6	47	35	5	2	10	9	7	6	6	2	11	5	9	3	95	68
Temple U.	1	4	22	27	16	4	7	6	6	4	8	7	5	11	4	1	69	54
Harvard U.	4	4	24	22	16	10	8	5	6	7	5	1	12	12	4	1	79	62
Jefferson Medical College	1	4	25	28	23	11	11	3	4	4	4	3	11	8	4	1	83	62
Baylor College of Medicine	2	3	18	22	1	7	1	5	1	4	2	5	24	15	0	0	49	61
U. of Wisconsin	1	1	28	21	8	8	3	5	7	9	2	4	1	8	1	2	51	58
Medical Coll. of Wisconsin	0	5	32	20	9	8	2	9	8	10	9	0	8	4	6	1	74	57
U. of Tennessee	1	0	23	37	2	4	4	2	4	3	2	1	19	5	2	3	57	55
U. of Cincinnati	2	4	23	18	7	5	6	5	5	3	6	1	8	14	0	3	57	53
U. of Oklahoma	4	3	18	19	2	4	5	8	4	1	5	2	16	14	2	2	56	53
U. of Pennsylvania	3	6	22	22	6	0	8	1	8	7	4	3	11	10	5	3	67	52
U. of Texas, Galveston	2	0	4	22	1	2	5	3	1	2	0	1	18	17	1	1	32	48
U. of Texas, SW	0	2	9	18	0	5	1	1	3	2	1	3	5	14	1	1	20	46
Columbia U.	4	3	19	18	3	12	4	0	4	3	1	2	12	7	3	0	50	45
U. of Chicago, Pritzker	1	5	16	11	13	10	11	2	9	4	3	1	8	11	2	0	63	44
U. of Pittsburgh	0	2	17	16	4	3	1	3	2	1	4	4	1	10	1	3	30	42
Hahnemann Medical College	1	2	23	15	5	8	2	6	2	2	5	4	8	2	0	1	46	40
Rush Medical College	1	--	21	--	15	--	15	--	12	--	4	--	5	--	5	--	78	--
TOTAL, Above 31 Schools	46	105	821	753	301	236	233	181	288	198	167	149	342	316	132	76	2330	2014
Other U.S. Schools	30	68	363	375	131	132	59	48	72	65	79	66	153	171	39	30	926	955
TOTAL Out-of-Region	76	173	1184	1128	432	368	292	229	360	263	246	215	495	487	171	106	3256	2969
Canadian Schools	0	4	27	22	12	20	9	2	5	6	14	12	13	11	1	3	81	80
Foreign Schools	5	12	99	221	92	148	8	4	15	18	9	16	58	59	4	14	290	492
GRAND TOTAL	98	250	1431	1568	609	608	411	343	421	345	329	314	620	651	203	161	4122	4240